# Disclosure Document Deposit Request

DISCLOSURE DOCUMENT NO.

502915

RETAINED FOR 2 YEARS
THIS IS NOT A PATENT APPLICATION

PTO-1652 (8/99)

Inventor(s) x William B. Welch
Title of Invention: x Freezer Alarm System

Enclosed is a disclosure of the above-titled invention consisting of 1 sheets of description and ___ sheets of drawings. A check or money order in the amount of $240.00 is enclosed to cover the fee (37 CFR 1.21(c)).

The undersigned, being a named inventor or the disclosed invention, requests that the enclosed papers be accepted under the Disclosure Document Program, and that they be preserved for a period of two years.

x William B. Welch
Signature of Inventor(s)

x 1760 Whites Lane
Address

x William B. Welch
Typed or printed name

x
x

x 11/15/01
Date

x Yazoo City, Ms. 39194
City, State, Zip

## NOTICE TO INVENTORS

It should be clearly understood that a Disclosure Document is not a patent application, nor will its receipt date in any way become the effective filling date of the later filed patent application. A Disclosure Document may be relied upon only as evidence of conception of an invention and a patent application should be diligently filed if patent protection is desired.

Your Disclosure Document will be retained for two years after the ate it was received by the Patent and Trademark Office (PTO) and will be destroyed thereafter unless it is referred to in a related patent application filed within the two-year period. The Disclosure Document may be referred to by way of a letter of transmittal in a new patent application or by a separate letter filed in a pending application. Unless it is desired to have the PTO retain the Disclosure Document beyond the two-year period. It is not required that it be referred to in the patent application.

The two-year retention period should not be considered to be a "grace period" during which the inventor can wait to file his/her patent application without possible loss of benefits. It must be recognized that in establishing priority of invention an affidavit or testimony referring to a Disclosure Document must usually also establish diligence in completing the invention or in filing the patent application since the filing of the Disclosure Document.

If you are not familiar with what is considered to be "diligence in completing the invention" or "reduction to practice" under the patent law or if you have other questions about patent matters, you are advised to consult with an attorney or agent registered to practice before the PTO. The publication, Attorneys and Agents Registered to Practice Before the United States Patent and Trademark Office, is available from the Superintendent of Documents, Washington, DC 20402. Patent attorneys and agents are also listed in the telephone directory of most major cities. Also, many large cities have associations of patent attorneys which may be consulted.

You are also reminded that any public use or sale in the United States or publication of your invention anywhere in the world more that one year prior to the filing of a patent application on that invention will prohibit the granting of a patent on it.

Disclosures of inventions which have been understood and witnessed by persons and/or notarized are other examples of evidence which may also be used to establish priority.

There is a nationwide network of Patent and Trademark Depository Libraries(PTOL's) which have collections of patents and patent-related reference materials available to the public. Including automated access to PTO databases. Publications such as General Information Concerning Patents are available at the PTOL's as well as the PTO's Web site at www.uspto.gov. To find out the location of the PTOL closest to you, please consult the complete listing of all PTOL's that appears on the PTO's Web site or in every issue of the Official Gazette, or call the PTO's General information Services at 800-PTO-9199 (800-786-9199) or 703-308-HELP (703-308-4357). To ensure assistance from a PTOL staff member, you may wish to contact a PTOL prior to visiting to learn about its collections, services, and hours.

WILLIAM B. WELCH
1760 Whites Lane
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(662) 746-2833

The Law Office of David P. Gaudio,P.C.
The Inventers Network
332 Academy Street
CARNEGIE, PA. 15106

ATTN: Mary T. Dornetto,

RE. FREEZER TEMPERATURE ALARM SYSTEM

The system can be constructed in a small housing, probably plastic or some type of material inexpensive in order to keep the cost to consumers to a minimum. The device will only need 6 parts in order for it to do the job it is designed to do. 1. Thermostat 2. Power Cord 3. Bulb 4. Socket (for bulb) 5. Audible Buzzer 6. Housing. The thermostat will have a sensing capillary tube on it so that it can be ran inside the freezer. You can place the sensor in a corner, inside the freezer to keep it from being broken from people taking food from freezer or putting food in. Possibly, the system could come with a piece of tape that you could tape the sensing bulb to the corner rather than just hanging loose. The thermostat will have a set of points that will close on temperature rise. With a set temperature on the thermostat to close at 25*-30*, when it closes, it sends power to the light bulb and the audible buzzer. If the consumer is not in an area to see the light when it is illuminated then they will hear the sound of the audible alarm. Or vice-versa, if they are mowing the lawn or something that would make it hard to hear the audible alert, then sooner or later the bulb will catch their attention. Either way they have saved hundreds of dollars worth of meat and vegetables from a purchase that only cost a few bucks.

The system can be adjustable or have a set amount of time in which it stays on after the alarm system has been set off. Also the audible could have a volume control, which may be a must if your alarm system has remote alerts. The systems could have test buttons to be sure the power goes to the light bulb and to the audible alert and that they do as they should.

This system can be added to any type of refrigeration unit that a below freezing temperature is needed. You can add it to ice cream freezers in grocery stores, to your refrigerator freezer in your home, to freezers in hospitals that are for medicinal purposes where temperatures have to stay below 32*, or in commercial applications where certain temps. are a must. So it has a wide area of applications. These systems can just as easily have thermostats that are adjustable. For instance the domestic type freezers in the home are designed to maintain below freezing temps. for approximately 24 hrs. after the freezer has failed , so the alarm could sound at 33*-34* and the consumer would still have

time to call a repairman or to make arrangements to locate another freezer to place their food in. I am in the refrigeration and air conditioning business and have either been taught or learned from experience that any food still containing even some ice crystals are safe to refreeze. Which means even if the alarm goes off at the set temperature the air space may be 32* or a little higher but the temperature below the surface of the food is still going to be below freezing. So the consumer will have several hours in which to find a safe place for the frozen food.

If some one could spend a few dollars and possibly save hundreds or maybe even thousands of dollars worth of food they wouldn't hesitate to buy one, possibly 2 or 3 for other refrigerators or freezers.

This is a device that will enable consumers to know when they are about to loose all the food in their refrigerator, freezer, ice cream box, etc. It can be constructed as a compact unit, one you can mount on the wall near your freezer, or whatever application you should choose. The device will have two different ways of alerting you that the temperature in your freezer is nearing 32* and in danger of thawing. Since freezers today are designed to keep food around 24 hours after the unit has failed, this device has plenty of time to alert the consumer of dangerous temperatures. Knowing this will allow the consumer enough time to either call a service depot to repair the unit, or time to make other arrangements to store their food somewhere else.

The ways of alerting the consumer is No.1 By sounding an audible alarm, No.2 By sending power to an indicator light. The reason for having two types of alarms on the system is as follows: If for instance you were mowing the lawn, and couldn't hear an alarm, hopefully the light would soon catch your attention. Or maybe your taking a nap or asleep at night and you don't see a light when it comes on, hopefully the audible alarm will wake you and at least let you know that you have to do something soon in order to save the food in your freezer.

I'm sure i could go into the many applications the Freezer Temperature Alarm System can be used but I.m sure you can see that the system could be useful, inexpensive and with a demand by consumers.

William B. Welch
1760 Whites Lane
Yazoo City, Ms. 39194
(662) 746-2833

# INVENTOR'S QUESTIONNAIRE

**Please fill out this questionnaire to your best ability. Some of the information requested may appear to be redundant, but it does allow our Staff to provide you with clear, concise information. Consult your representative for any assistance or guidance.**

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**1. How would you like your name to appear on all written materials?**

William B. Welch

**2. If you have a co-inventor or co-inventors, do you want their name to appear on all materials? ___Yes ___No. If so how do you want their name to appear?**

None

**3. How would you like the Invention Name to appear on all written materials?**

FREEZER TEMPERATURE ALARM SYSTEM

**4. Describe your Invention/Idea in as much detail as possible:**

(Please attach additional paper to this form if necessary)

A DEVICE THAT CAN BE ADDED TO ANY REFRIGERATOR, DOMESTIC FREEZER, COMMERCIAL FREEZER, ICE CREAM BOX, ETC. TO ALERT THE CONSUMER OF TEMPERATURES REACHING ABOVE FREEZING RANGES. THIS ALARM SYSTEM WILL ALERT THE USER IN TIME TO BE ABLE TO MAKE ARRANGEMENTS FOR QUALIFIED SERVICE AGENCIES TO REPAIR OR TO FIND ANOTHER LOCATION FOR FOOD UNTIL FREEZER IS REPAIRED (ATTACHED SHEET)

**5. Provide instructions as to how someone would use your Invention/Idea:**

MOUNT ON A WALL NEAR YOUR APPLICATION, PLUG IT IN, SET THE BUZZER ADJ. & TEMP. ADJ. & WALK AWAY. IF TEMPS. GET TO A DANGEROUS LEVEL THE ALARM SYSTEM WILL LET YOU KNOW. (ATTACHED SHEET)

**6. List all of the benefits and/or advantages that your Invention/Idea has:**

NO. 1 IS SAVING ALL THE MEAT & VEGETABLES YOU SPENT SO MUCH MONEY FOR OR WORKED IN YOUR GARDEN TO PUT UP. I KNOW MANY PEOPLE THAT HAVE COST WHOLE BEEVES THEY HAVE HAD CUT UP & PACKAGED & PUT IN FREEZER & IT GO OUT ON THEM. (ATTACHED SHEET)

NO 2. IS THE PEACE OF MIND (Over) GIVE YOU KNOWING THAT NOW IT WILL YOU HAVE A CHANCE OF SALVAGING THE LARGEST PART OF YOUR EXPENSIVE OR HARD EARNED FREEZER CONTENTS JUST BY MAKING A PURCHASE OF A FEW DOLLARS.

7. Does your Invention/Idea solve a particular problem? If so, how does it solve this problem?

IT CAN SAVE HUNDREDS OR EVEN THOUSANDS OF DOLLARS WORTH OF FOOD, ACCORDING TO THE TYPE OF APPLICATION. IT WILL ALSO GIVE YOU PEACE OF MIND KNOWING YOU DONT HAVE TO WORRY ABOUT A LOSS OF FOOD.

8. Do you have any suggestions as to the materials necessary to manufacture your Invention/Idea? If so, what would you recommend?

A PLASTIC HOUSING, A DRYER SIGNAL, REFRIGERATOR THERMOSTAT, TOGGLE SWITCH, POWER CORD, & 40 WATT APPLIANCE BULB IS THE PARTS I USED FOR THE ONES I'VE CONSTRUCTED

9. What do you think the retail price of your Invention/Idea would be?

AROUND $20.00

10. What stores, outlets or distributors would carry your Invention/Idea?

K-MART, WALMART, SEARS, ALL APPLIANCE PARTS HOUSES, APPLIANCE SALES OUTLETS, ELECTRIC COMPANIES, ETC. THIS WOULD BE SOMETHING YOU COULD MOVE ALMOST ANYWHERE.

11. What products, if any, would compete with your Invention/Idea? What are their retail prices?

I REALLY DONT KNOW OF ANY ON THE MARKET, UPRIGHT FREERS, CHEST TYPE FREEZER & SOME COMMERCIAL FREEZERS HAVE TEMP. LIGHTS BUT NO AUDIBLE TYPE ALARMS & THEIR NOT ADD ON, THEIR BUILT IN FROM FACTORY

12. Who do you feel would buy your Invention/Idea?

ANYONE WHO HAS A REFRIGERATOR, FREEZER, ICE CREAM BOX OR COMMERCIAL FREEZER & DONT WANT TO TAKE A CHANCE OF LOOSING FOOD

13. Add any additional comments here:

WITH TECHNOLOGY AS IT IS TODAY I DONT SEE WHY THIS SYSTEM COULDNT BE PRODUCED TO COST THE CONSUMER UNDER $10.00, FOR IN HOME APPLICATIONS & FOR COMMERCIAL APPLICATIONS A FEW DOLLARS MORE, DEPENDING ON HOW REMOTE THE ALARMS ARE FROM THE TEMP SENSORS. AS FAR AS WHERE YOU COULD SELL THEM, ANY WHERE, EVERY ONE HAS A REFRIGERATOR. SOME I KNOW HAVE 3, 4 OR EVEN 5 LOCATIONS & APPLICATIONS IN ONE HOUSEHOLD THAT THEY COULD ADD THE FREEZER TEMPERATURE ALARM SYSTEM

***If the drawing that you provided us with on the Official Record of Invention is not a detailed drawing, please attach a detailed drawing to this form. Please, if appropriate, label each part.

Norma
#76132

OCT 30 2001

# The Law Office of David P. Gaudio, P.C.

## THE INVENTORS NETWORK

toll-free phone: 1-888-477-9773 toll-free fax: 1-888-486-9788

## INVENTOR'S OFFICIAL RECORD OF INVENTION

INVENTOR NAME William B. Welch
(FIRST) (MIDDLE) (LAST)

ADDRESS 1760 Whites Lane

CITY Yazoo City STATE Ms. ZIP CODE 39194

TELEPHONE: RESIDENCE (662) 746-2833

BUSINESS ( ) SAME

IDEAL CONTACT TIME: Buddy Welch

CO-INVENTOR NAME:
(FIRST) (MIDDLE) (LAST)

**Let it be known to all that I have conceived the product/idea illustrated and described herein which is called:**

Freezer Alarm System
(PRODUCT/IDEA NAME)

The Inventors Network, its employees and representatives, hereby guarantee, without exception, that your new product/idea disclosed herein shall not be used, sold, assigned, or disclosed to any corporation, organization, or person without your prior written permission. This agreement is fully binding.

The undersigned (David P. Gaudio) hereby promises to keep this information confidential as per the canons of ethics and rules of professional conduct. Confidence refers to information protected by the attorney-client or agent-client privilege under applicable law.

David P. Gaudio

Attorney David P. Gaudio
Pennsylvania I.D. #77010

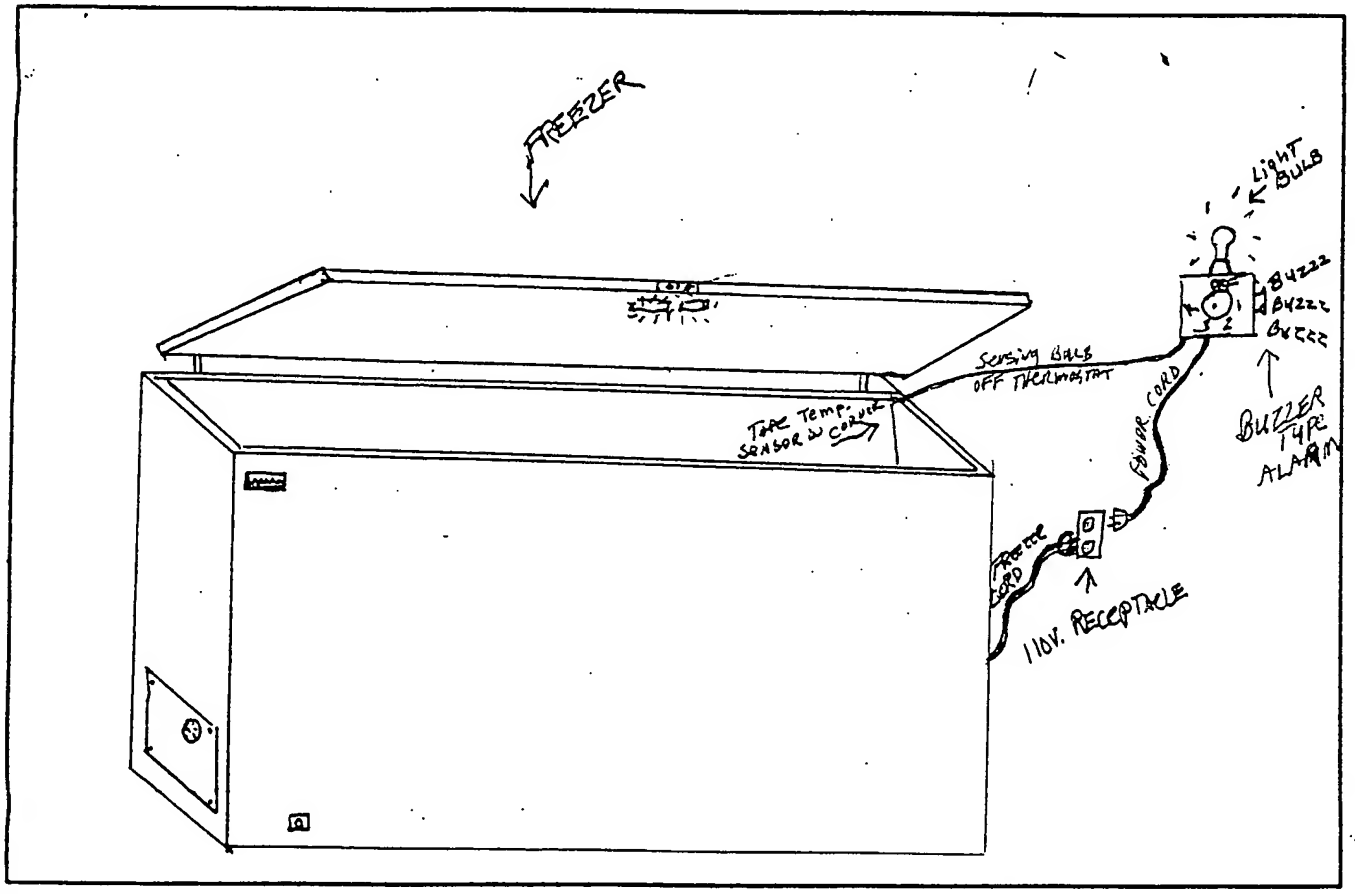
INVENTOR(S) SIGNATURE(S) William B. Welch (DATE) 10/27/01

Revised 8-18-98

**Notice: PROHIBITED INVENTIONS:**
The following are categories of ideas or inventions that are not acceptable for research and development by The Inventors Network: *1.Perpetual motion device or machine* (any invention that can run indefinitely without re-generating the energy source.) *2. Products or ideas using the name, likeness, or logo of an individual group or corporation* (i.e. a "Batman" doll). *3.Chemical formulas or medications 4.Product ideas without component design, or based on an unrealistic level of technology* (i.e. ideas that have no plans as to how it should actually work). *5. Pornographic devices or products, or those considered harmful or in poor taste. 6.Military weapons. 7.Ideas not related to products* such as:•a. Business franchises.•b. Services to consumers, business, or government. •c. Advertising slogans or campaigns. •d. Literary or musical works.•e. Suggested public policies. For all items marked with an asterisk(•), we can help you with trademark or copyright protection for these types of ideas, but cannot assist in the marketing of them.

# ILLUSTRATION

Please furnish a drawing of your product idea in the space provided. A professional illustration is not necessary nor expected. If photographs are available, please attach.




Please list suggested components and materials, etc.:

(1) Thermostat (closes on temp rise) (2) Audible Alarm Buzzer (3) Light Receptacle (4) Light bulb (5) Power cord (110V.) (6) Housing

**DO NOT SUBMIT PROTOTYPES OR WORKING MODELS UNLESS REQUESTED. THE INVENTORS NETWORK IS NOT RESPONSIBLE FOR THE SAFE ARRIVAL, HANDLING, MANAGING OR RETURN OF ANY PROTOTYPES MAILED TO OUR ATTENTION UNLESS REQUESTED BY THE INVENTORS NETWORK.**

## PRODUCT/IDEA DESCRIPTION

Describe your product/idea.

Its a simple set up consisting of a thermostat, light socket, light bulb, audible buzzer or alarm, housing & power cord. Its lets a consumer know the freezer has reached a temperature that can ruin freezer food. Now freezer come with power indicator & some with light in case temp is high but not audible noise in case your in a position & can't see the light come on. Also this is an add on type system. Compact & can be inexpensive.

Explain the product/idea's function(s). With the temperature sensor taped into the corner of the inside of any freezer, (commercial, upright, chest types, etc) should the temperature rise inside above the set temp. The therm send power to light bulb & audible device. You will either hear it or see it & save food

List the product/idea's benefits and unique qualities.

The most important benefit is that it can save consumers much money by not loosing their food if the freezer should fail. Many never check periodically & be sure temp. is ok. This device will warn them of high temp. It can also be very inexpensive to produce. Its also simple & lasts. No batteries & uses no power until it drops below set temp (32°)

If this is an improvement on an existing product, list the new benefit(s).

Im not sure it hasn't already been invented. I may be a day late & dollar short. I have made several from used parts from my business & have given some to friends. They have saved food with them so they do work

## BACKGROUND INFORMATION

When did you conceive your product/idea? 2 years ago 1998

Briefly state how you first conceived this idea (work, hobby, etc.). I was just looking over a bunch of used parts one day & it came to me

List those individuals to whom you have revealed your product/idea.

Florence Rodgers, Kathy Hartbrock, Joe Pugh, Todd Veach, & myself

Have you constructed a prototype? Yes Has it been tested/used? yes

## PATENT STATUS

| | YES | NO |
|---|---|---|
| Has a patent search been conducted? If yes, please attach. | ☐ | ☐ unsure |
| Have you filed a patent application on your product/idea? | ☐ | ☑ |
| Do you have an issued Patent on your product/idea? If yes, please indicate date of issue or attach a copy | ☐ | ☑ |
| Have you made a public disclosure of your invention or offered it for sale? | ☐ | ☑ |

If yes, please explain: _____

## AREAS OF SPECIAL INTEREST

Please check areas of interest or need.

☑ Patent Development ☑ License Negotiation ☐ Distribution

☑ Prototype Development ☑ Manufacturing Contacts ☐ Graphic Arts

## ADDITIONAL INFORMATION

Please include any additional information you feel may help us in understanding your product/idea. This is an add on alarm. you can put it on any freezer or Refrigerator I'm not sure if this is the 1st of its type so I guess I need to check with someone to find out. If you can help me with this please contact me. It's not completed but 2 or 3 but all worked & simply made. This unit takes No batteries, & uses no power unless your temperature rises above set Temp (usually 32°F) It will mount to side of freezer or on wall behind freezer if your not around it & don't see light, you'll hear buzzer. If your asleep you'd hear it. If your moving & can't hear you'd see light.

Richard J. Spinola, P.E.
Professional Engineer- State of Pennsylvania Registration Number PE-020207-E

**FROM**: Richard J. Spinola, PE
**RE:** FREEZER ALARM SYSTEM / WILLIAM B. WELCH
**DATE:** March 2, 2002

Upon evaluation of FREEZER ALARM SYSTEM, it is my professional opinion that the new product idea is technically feasible. FREEZER ALARM SYSTEM is an emergency warning device, which signals the homeowner that the interior of a freezer is above a user-defined temperature. The invention allows the homeowner to take corrective action in the event the temperature in a freezer rises above 32 degrees Fahrenheit. The invention utilizes an audible alarm and a warning light to warn of an emergency in the event of a temperature rise inside the freezer. Mounted inside the freezer is a temperature-sensing bulb, which controls a set of normally open contacts that close when the temperature rises to a predetermined temperature set by the owner. The closing of the contacts at a temperature between 25 – 30 degrees Fahrenheit completes a circuit to an audible alarm and to a warning lamp. The invention is powered by a 120-volt power cord connected to an electrical outlet. The invention eliminates the loss of food due to spoilage. The device is applicable to home appliances, commercial freezers, as well as to medical freezers. The invention provides the advantage of reducing the frequency of food spoilage due to an appliance malfunction. FREEZER ALARM SYSTEM can be utilized on new and existing appliances.

FREEZER ALARM SYSTEM consists of:

i) Temperature settable thermostat (25 –30F)
ii) Audible alarm with volume control
iii) Warning light
iv) 120-volt power cord
v) Housing

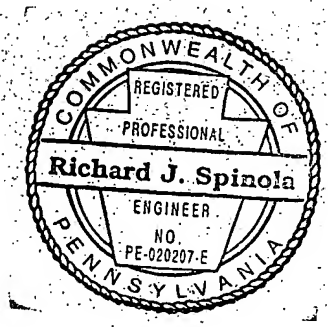
FREEZER ALARM SYSTEM would be utilized by placing the sensing bulb of the thermometer in the freezer compartment. Next, the unit is hung on the wall near an outlet. Then, the desired alarm temperature is set. Finally, the freezer is used in the usual manner.

As I understand, the inventor's intentions, FREEZER ALARM SYSTEM would be constructed of various equipment such as volume control, audible alarm, thermostat and warning lamp along with certain wiring. These components are known to the industrial community, readily available, and at a reasonable cost.

FREEZER ALARM SYSTEM can be produced by conventional electronic and electrical apparatus manufacturing techniques. There are many companies throughout the industrialized nations capable of performing the manufacturing process.

Although development still remains, which could alter production, design, the above is my considered opinion at present.

Richard J. Spinola, P.E.



# PRE-DEVELOPMENT QUESTIONNAIRE

The following information request will be needed for the creation of all of the written materials for your project. Please return this information to us as soon as possible. Consult your Inventors Manual for more information and direction. ***PLEASE COMPLETE ALL QUESTIONS.***

**Be careful to write names, etc. exactly as you want them to appear on all official documents.**

**(PLEASE PRINT CLEARLY)**

NAME William Bernard Welch
(FIRST) (MIDDLE) (LAST)

CO-INVENTOR† _____
(FIRST) (MIDDLE) (LAST)

**❖Only fill in if this is a true co-inventor, who had a hand in inventing the product and whose name should appear on the patent application.**

ADDRESS _____
(APT. OR HOUSE #) (STREET)

_____
(CITY) (STATE) (ZIP CODE)

Home Phone:( )_____-_____ Work Phone:( )_____-_____

PRODUCT NAME _____

**❖❖❖All items marked with an asterisk (*) ARE OPTIONAL. This information is needed if you choose to participate in the Press Release part of the program.** ***If you wish to decline the Press Release program at this time, please initial here:_____***

MARITAL STATUS* Divorced

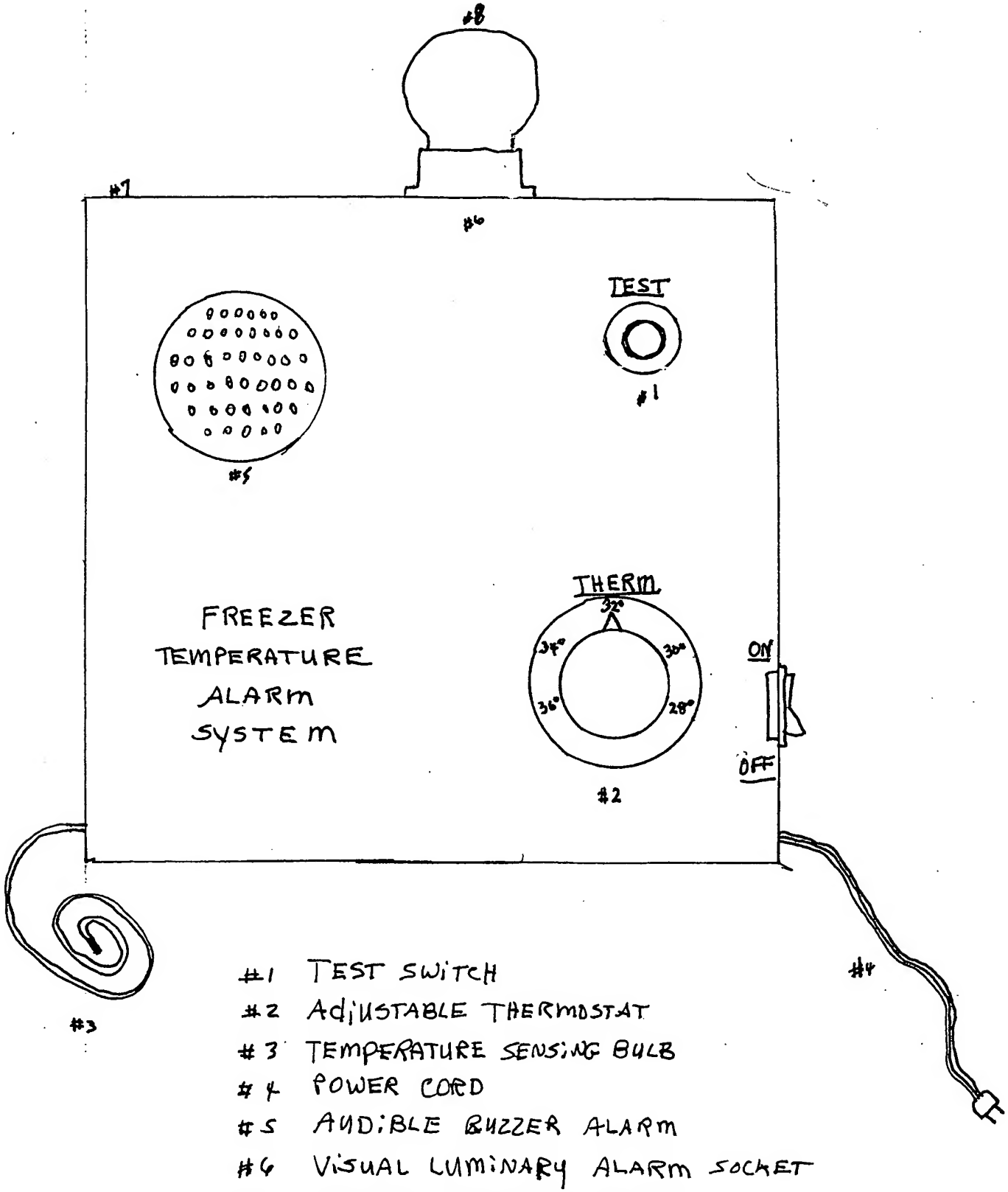
SPOUSE'S NAME * _____
(FIRST) (MIDDLE) (LAST)

CHILDREN* Michael Todd Welch

GRANDCHILDREN* _____

EMPLOYER'S NAME* Self-Employed POSITION* Owner

YOUR HOBBIES AND INTERESTS:* Collector Cars & Trucks, Automotive Restoration, Auto Painting, Yard & Garden, Pro-Football, My Pet Dog 'Gal', Fast Cars.




#1 TEST SWITCH
#2 ADJUSTABLE THERMOSTAT
#3 TEMPERATURE SENSING BULB
#4 POWER CORD
#5 AUDIBLE BUZZER ALARM
#6 VISUAL LUMINARY ALARM SOCKET
#7 HOUSING FOR ALARM SYSTEM
#8 LIGHT BULB
#9 POWER 'ON'-'OFF' SWITCH

**THE STORY BEHIND YOUR INVENTION/ OTHER PERTINENT INFORMATION THAT MAY BE HELPFUL IN PROMOTING YOUR IDEA (Attach additional sheets if necessary).**

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**The following information is VITAL to the preparation of most of the items associated with your project, including your *Patent Application*. Please provide as much detail as possible. Refer to the Inventors Manual section entitled, "PRE-DEVELOPMENT QUESTIONNAIRE." ATTACH EXTRA SHEETS IF NECESSARY.**

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**1. Sketch how your invention looks in detail. If you have a drawing or photograph, please attach it and label and name each part. State the function of each part and how it works.**

**Note: If an illustration was done for you by us, please check which of the following apply:**

- ❒ **Illustration is fine as-is. I have attached a copy of it.**
- ❒ **I have attached a copy of it and indicated all necessary changes.**
- ❒ **Refer to my sketch (below, or attached) and provide completely new drawings.**

**2. From start to finish, state exactly how your invention is used (as if you are writing an instruction booklet to accompany the product.)**

Mount the system near your freezer, refrigerator, cooler, etc. whatever the application may be. Take the temperature sensing capillary tube (temperature sensing bulb) & raise lid on freezer. Place the sensing tube in corner of freezer about 12"-16" under top level of food. Tape or secure the bulb or tube to the corner so as not to damage it removing or adding food. Close freezer door. Plug temperature ~~alarm~~ system into any 115 Volt outlet near your application. Press Test Switch & be sure there is power & unit & to assure yourself system is in working order. Adjust temperature thermostat accordingly. Then you can leave it set & if any problems occur that causes temperature inside freezer cavity to rise & set temperature (thawing temperature) it will alert you audibly & visually in time to be able to salvage food.

**3. In comparison to products that are currently patented or used to perform this task or fill this need that you know of, how is your invention different, better and unique? Make direct comparisons of the advantages your invention has over the others.**

All the service calls I've been on in my 33 years of servicing refrigerators, coolers & freezers, I have yet to come up on one that had any type of an alarm system that let the consumer know they had a problem inside freezer cavity of rising temperatures. All those customers luckily or the ones that were lucky, just happened to need something from their freezer & noticed temperature was high or food was thawing. Some did have an indicator light about the size of a pencil eraser or maybe a dime & some rectangular shaped the size of a hairpin that was installed at the factory when manufactured. These were mostly the top of the line models. Of the alarm systems I have found that are similar to my idea are very complicated making them too costly for the average consumer To purchase as an add on unit

Some of these alarm systems use expensive parts (thermostats, switches etc) Some are electronic with touch control electronic boards making them also so costly it would make them non feasable to purchase as add On alarms. The others that I've found on a less expensive line dont have but one way of alerting the consumer, either audible with a buzzer, beep, etc. or visually with a small, too small of an illuminating indicator that you would almost have to be on top of to notice it. Mine I plan to have something similar to use the with appliance bulb, much like what lights the inside of your refrigerator, oven or micro wave. a Regular 40 watt tempered bulb. That the consumer can easily replace by unscrewing the old one & screwing a replacement in its place should it get broken or not illuminate when the press the test switch. Also until my alarm system goes into operation from temperature rising inside its application it uses no power what so ever. Unless of course we did decide to use a very small indicator light that would at least let the user know it is getting power to, then add an alarm system. If those consumers wanted their unit plugged in near their freezer but the visual & audible alarm to be elsewhere, with a little added wiring & by making the buzzer & bulb easy to remove for placing in another location this could be easily accomplished & with probably a very low added expense to the manufacturer of the alarm system.

Lastly as far as being unexpensively produced, the 1st demo. I built was from scrap parts around my shop stripped from junk appliances, but if I ordered all new parts to build one I believe the total cost would be. under $30.00, So if I can build only one at this price I see no reason in mass production they couldn't be made & able to be sold to the public for less than $20.00 There are more ways if you just think about it that my idea is better & more practical. but most important is the [illegible]

4. Name any other use(s) for or benefit(s) of your invention:

Domestic Food Freezers, Refrigerators, Ice makers, etc.
Hospital Refrigerators & freezers where certain temperatures must be maintained
Veterinary Clinics where medicine is kept in certain temperatures
Slaughter houses
Walk-in coolers & freezers at fast food stores.
Computer Rooms at all types of mills or industries.
These are just a small amount of uses & the uses really are countless.
As far as how it benefits the consumer, no doubt by saving someone like a retired or elderly couple who may work a garden all summer for fresh food & store in a freezer for winter. Or perhaps a single man with little or set income that purchased a large quantity of beef or pork & store in their freezer in order to save as much money as possible to make ends meet. If these few people walked in Wal-mart for example & in the middle of an isle was a large container with numerous packages marked "FREEZER TEMPERATURE ALARM SYSTEM" and at a mere cost of only $19.95 I really believe for peace of mind it would be hard not to purchase one.

5. What else can you disclose about your invention?

Another thing about my idea is the simplicity. Its not at all complicated in how it works nor is it complicated to install. The part could be made easy to replace even for the consumer. This makes it something that could possibly serve a consumer for years to come just from being able to maintain it themselves. On top of that if they do have one unrepairable they are still reasonably priced & where most can afford another. One other thing is those families that have 2 or 3 freezers & 2 or 3 refrigerators they would or could purchase multiple units. One for each application. For that matter the system could be manufactured especially for multiple application. With only the thermostat itself in an added housing with a plug in type hook up that could be made to connect to the main unit. Of course there are countless ways they could be produced & manufactured. Its design makes it possible to be manufactured in any number of ways & still be made feasable for consumers to purchase as an add on unit to their already owned in home appliance. One other important factor is you wont have to worry about batteries running down because it has no use for them. Someone asked me about a battery back up. What if the power is out in your home then the consumer automatically knows their freezer is not working & be working as it should. They know to take the necessary steps to save their food or other interior stored items. To me this is definitely a plus.

This information was written on the 30 th day in the month of JUNE in the year 2002 by:

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